

CLAIM AMENDMENTS

1-12 (canceled)

13. (new) A swing door apparatus for controlling movement of a swing door, the swing door apparatus comprising an operation shaft for connection to the swing door whereby the operating shaft turns in accordance with movement of the swing door, a common potentiometer shaft coupled to the operation shaft whereby the potentiometer shaft turns in accordance with turning movement of the operation shaft, and first and second potentiometers coupled with the common potentiometer shaft, the first and second potentiometers having at least substantially identical characteristic curves and being arranged in conjunction with the common potentiometer shaft so that the respective characteristic curves are shifted in phase with respect to one another.

14. (new) A swing door apparatus according to claim 13, wherein the respective characteristic curves are shifted in phase with respect to one another by substantially 180°.

15. (new) A swing door apparatus according to claim 13, wherein the characteristic curves of the potentiometers each include a linear range and the apparatus comprises a control unit which is arranged to select each time the potentiometer to be used for the detection of door position so that the position detecting is performed within the linear range of the selected potentiometer.

16. (new) A swing door apparatus according to claim 13, wherein the common potentiometer shaft is mounted to a drive wheel which is mechanically coupled to said operation shaft for turning the common potentiometer shaft.

17. (new) A swing door apparatus according to claim 16, wherein the drive wheel is a gear that is in meshing engagement with a gear attached to the operation shaft.

18. (new) A swing door apparatus according to claim 13, comprising an electric motor coupled drivingly to said operation shaft and a power source for supplying power to the electric motor, and wherein said potentiometers receive power from said power source.

19. (new) A swing door apparatus according to claim 13, comprising a body structure to which the potentiometers are attached, and wherein each potentiometer has a slider member connected to the potentiometer shaft for turning therewith.

20. (new) A swing door apparatus according to claim 13, comprising a body structure by which the potentiometer shaft is mounted in a manner allowing rotation of the potentiometer shaft relative to the body structure, and wherein each potentiometer includes a stationary outer member by which the potentiometer is attached to the body structure.

21. (new) A swing door apparatus according to claim 13, comprising a body structure by which the potentiometer shaft is mounted in a manner allowing rotation of the potentiometer shaft relative to the body structure, and wherein each potentiometer includes a stationary outer member by which the potentiometer is attached to the body structure and also includes a slider member attached to the potentiometer shaft.